

ADC SOLO DIGITIZER

**Smallest-footprint digitizer for
personal computed radiology**



The ADC Solo is the smallest-footprint, fully functional digitizer on the market today. It features a unique direct identification function, which receives patient data while the imaging plate is being scanned, avoiding the need for a separate ID Tablet and additional cassette handling.

Digital imaging in any location

The economical ADC Solo has a footprint so small that it can easily be placed in the most confined location or practice. Designed with ease-of-use in mind, it requires only a standard wall-outlet. After a quick and simple installation by a service technician, you are immediately ready to enjoy the many advantages of digital imaging.

Time saving direct identification

A unique function, which places the ADC Solo ahead of its competitors, is its capacity to receive ID data and scan the imaging plate simultaneously. The cassette is inserted into the ADC Solo for image scan whilst patient data is entered on the ID station. Once the image scan is complete, both the scanned image and ID data are merged and sent to the processing station. Alternatively, the cassette can also be inserted in the ADC ID Tablet for

identification and subsequently be placed into the ADC Solo for digitization. Additional strengths are manifested when the ID software is linked with the HIS/RIS system by means of ADC Rislink Toolkit software.

Instant image preview

ADC Solo's versatile Preview software allows for checking patient positioning, collimation border detection and processing quality even before the hardcopy is printed or the softcopy is sent to its destination. When digitized with the ADC Solo, the images can be immediately evaluated.

Automated processing lets you get on with your work

The ADC Solo Digitizer scans the exposed ADC imaging plate, converts the information into digital data and automatically transfers the image to the image processing computer for further processing and visualization as well as to a predefined preview station. It requires no manual interaction. Once the cassette is inserted, the ADC Solo automatically takes it from the input, reads the demographic data from the cassette memory chip, scans the imaging plate, digitizes the image and returns the cassette to the output for new exposures.

Full data for top imaging quality

The ADC Solo reads the imaging plates with 12 bits/pixel greyscale resolution. The complete raw data set is transmitted to the image processing computer. Spatial resolution can range from 6 to 9 pixels/mm.

An economic way to go digital

ADC Solo cassettes are compatible with conventional X-ray tables. This allows conventional X-ray departments to go digital without extra investments in digital X-ray units. The flexibility of the ADC Solo makes it a cost-effective building block on the way to a fully digital X-ray department, right from day one.

ADC Solo Digitizer

Technical data

General

Digitizer type

Single cassette feed

Dimensions

45 x 75 x 141 cm (W x D x H)
(Depth 73 cm at cassette-slot)

Weight

approx. 210 kg

Power

230 - 240 V/ 50 - 60 Hz standby 230 W,
max. 1610 W, 16 A fuse (USA)
120 V/ 60 Hz (USA) standby 216 W,
max. 1440 W, 15 A fuse
100 V/ 60 Hz (Japan) standby 220 W,
max. 1500 W, 15 A fuse

Accepted cassette sizes

35 x 43 cm (14 x 17")
35 x 35 cm (14 x 14")
24 x 30 cm
18 x 24 cm
15 x 30 cm
8 x 10"
10 x 12"

Pixel matrix size

35 x 43 cm:	2048 x 2494
35 x 43 cm HR:	3062 x 3730
35 x 35 cm:	2048 x 2048
35 x 35 cm HR:	3062 x 3062
21 x 43 cm (partial scan of 35 x 43 cm cassette):	1778 x 3732
24 x 30 cm:	2040 x 2570
18 x 24 cm:	1514 x 2044
15 x 30 cm:	1248 x 2570
8 x 10":	1714 x 2164
10 x 12":	2164 x 2614

Environmental conditions

Temperature: 15 - 30 °C
Temperature change: 0.5 °C/min
Humidity: 15 - 75% RH
Magnetic fields: max. 12.60 µT
(in conformance with EN 61000-4-8:
level 3), 10 A/m

Environmental effects

Noise level: max. 65 dB (A)
Heat dissipation: standby 230 W
maximum 1610 W

Display

Machine status and error conditions,
emergency keys

Safety standards

EN 60950, 60825-1: 1994, 60601-1-2,
UL 1950
CSA C22.2 No 950
DHHS/FDA 21 CFR parts 1040.10 and 1040.11
CFR title 21, part 820
EEC 89/336, 93/42, 73/23, 89/392

Approvals

TÜV, GS, CE, UL, CUL

Performance

Throughput

60 plates/h (18 x 24 cm)
50 plates/h (35 x 43 cm)
35 plates/h (35 x 43 cm HR)

Spatial resolution

Reading sampling frequency:
35 x 43 cm: 6 pixels/mm
35 x 35 cm: 6 pixels/mm
35 x 43 cm HR: 9 pixels/mm (option)
35 x 35 cm HR: 9 pixels/mm (option)
24 x 30 cm: 9 pixels/mm
18 x 24 cm: 9 pixels/mm
8 x 10": 9 pixels/mm
10 x 12": 9 pixels/mm

Greyscale resolution

Data acquisition: 12 bits/pixel
Output to processor: 12 bits/pixel

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